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#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Claussen et al. § Group Art Unit: 2176

§

Serial No.: 09/409,370 § Examiner: Bieneman, C.

§

Filed: 09/30/1999 § Atty. Docket #: AT9-99-485

§

For: Method for processing a § document object model (DOM) § tree using a tagbean §

5 DECLARATION UNDER 37 C.F.R. § 1.131

To the Commissioner for Patents:

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Christopher Shane Claussen declares as follows:

1. I am an applicant for the patent application entitled "Method for processing a document object model (DOM) tree using a tagbean", U.S. Patent Application Serial Number 09/409,370, filed September 30, 1999, and an inventor of the subject matter described and claimed therein.

- 2. Prior to August 18, 1999, I completed and reduced to practice, in the United States of America, the invention described and claimed in the above-noted application, as evidenced by the following:
  - (a) I was named as an inventor on IBM Invention
    Disclosure Form AUS8-1999-0727, a document of which a
    copy is attached hereto as Exhibit "A", which
    describes the invention that is described and claimed
    in the subject application.

Page 1 Claussen et al. - 09/409,370

- 3. Each of the dates deleted from Exhibit "A" is prior to August 18, 1999.
- 4. I am named on page xviii (the "Acknowledgements" page) of the "JavaServer Pages™ Specification" Version 1.1
   Public Release", Sun Microsystems, Inc., 08/18/1999, as having contributed to the JSP 1.1. specification.
- 5. I further declare that all statements made herein of my own knowledge and all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful and false statements and the like so made are punishable by fine or imprisonment or both under § 1001 of Title 18 of United States Code and that such willful and false statements may jeopardize the validity of the above-referenced application and any patent issuing therefrom.

FURTHER DECLARANT SAYETH NOT.

Christopher Shane Claussen

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## EXHIBIT "A"



#### Disclosure AUS8-1999-0727

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Required fields are marked with the asterisk (\*) and must be filled in to complete the form .

#### Summary

Status	Submitted	
Processing Location	on aus	
Functional Area	46 -SWS- TECHNOLOGY CENTER (W. W. Lawton)	
Attorney/Patent Professional	Jeff LaBaw/Austin/IBM	
IDT Team	Craig Becker/Austin/IBM	
Submitted Date		
Owning Division	SWSD	
PVT Score	To calculate a PVT score, use the 'Calculate PVT' button.	•

#### Inventors with Lotus Notes IDs

Inventors: Shane Claussen/Austin/IBM, Ben ZumBrunnen/Austin/IBM

Inventor Name	Inventor		Managor		
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#### Inventors without Lotus Notes IDs

#### **IDT Selection**

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#### Main Idea

### Attle of disclosure (in English):

Special Style Java TagBean 2: Text In, Text Out

Idea of disciosure 1. Describe your invention, stating the problem solved (if appropriate), and indicating the advantages of using the invention.

There is a further simplification we can make for the tagbean writer: pass in an XML string.

This simplification doesn't require the writer to know anything about the DOM apis.

If the tag requires simple token replacement, the tagbean writer will find it way too cumbersome to perform the replacement when constrained to only looking at the text in small chunks of the

The TextTagBean extends the SimpleTagBean class and implements the translateElement function to inherit the String -> DOM output functionality.

The TextTagBean performs as follows:

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- 1 The Java TagBean handler calls SimpleTagBean.process(element). 2 SimpleTagBean.process hands the element off to the "overwritten" translateElement() method.
- 3 TextTagBean.translateElement() takes the element and flattens it into XML without interpreting any of the XML.

  4 The XML is passed to the translateText method.
- 5 translateText looks at the XML string and manipulates it to produce another text (XMLAJSP) representation of it and returns this to TextTagBean.translateElement().
- 6 translate Element returns the text outut of translate Text to the SimpleTagBean.process() method
- 7 The text représentation is parsed into a DOM.
- 8 The top node of the new DOM replaces the element that was passed into translateElement().
- 2. How does the invention solve the problem or achieve an advantage, (a description of "the invention", Including figures inline as appropriate)?
- 3. If the same advantage or problem has been identified by others (inside/outside IBM), how have those others solved it and does your solution differ and why is it better?
- 4. If the invention is implemented in a product or prototype, include technical details, purpose, disclosure details to others and the date of that implementation.
- \*Critical Questions ( Questions 1 7 must be answered)

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Patent Value Tool (Optional - this may be used by the inventor and attorney to assist with the eval

(The Patent Value tool can be used by you or the evaluation team to determine the potential licensing value of your invention.)

The Patent Value Tool has not yet been used to calculate a score.

Post Disclosure Text & Drawings

Special Style Java TagBean 2: Text tn. Text Out - continued

Enter any additional information relating to this disclosure below:

(Form Revised 12/17/97)



#### Disclosure AUS8-1999-0728

Created By: Matthew McClain Created On: Last Modified By: Matthew McClain Last Modified On:

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#### Summary

Status	Submitted
<b>Processing Location</b>	AUS
Functional Area	48 -SWS- TECHNOLOGY CENTER (W. W. Lawton)
Attorney/Patent Professional	Joff La Baw/Augity/IBM
IDT Team	Creig Becker/Austin/IBM
Submitted Date	
Owning Division	
PVT Score	ulate PVT button.

Inventors with Lotus hiventors: Matthew Mc

4BM, Ben ZumBrunnen/Austin/IBM, Lin Xu/Austin/IBM

Inventors without Lotus

**IDT Selection** 

#### Main Idea

Title of disclosure (in English) Special Style Java TagBean 1: DOM In, Text Out

\*idest of Graciosure 1. Describe your invention, stating the problem solved (if appropriate), and indicating the advantages of using the invention.

A good majority of the tagbeans we have written so far were implemented (or could have been implemented) by extending the SimpleTagBean class.

public abstract class SimpleTagBean implements TagBean

public abstract String

translateElement(Element element);

public final void process(Element element);

The SimpleTagBean is an implementation of TagBean.

It performs as follows:

- 1 The Java TagBean handler calls SimpleTagBean.process(element).
- 2 SimpleTagBean.process hands the element off to the "overwritten" translateElement() method.
- 3 TranslateElement looks at the tag and produces a text (XML4JSP) representation of it and returns this to SimpleTagBean.process().
- 4 The text representation is parsed into a DOM.
  5 The top node of the new DOM replaces the element that was passed into translateElement().

This is advantageous to the writer of the tagbean because now he doesn't have to know how to create new nodes and populate them with values. All the writer has to do is create an XML expanded form of the element passed in.

- 2. How does the invention solve the problem or achieve an advantage, (a description of "the invention", including figures inline as appropriate)?
- 3. If the same advantage or problem has been identified by others (inside/outside IBM), how have those others solved it and does your solution differ and why is it better?
- 4. If the invention is implemented in a product or prototype, include technical details, purpose, disclosure details to others and the date of that implementation.
- \*Critical Questions ( Questions 1 7 must be answered)

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Question 2

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18M2 ill ves :Enter the name of each publication or patent and the date published below Are you aware of any publications products or patents that relate to this invention.

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